: SADDLE FITTING, AFT (OUTBOARD/INBOARD)

Date

Thursday, 3/23/2006 3:52:01 PM

Uses

Kim Johnston

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number**  : 26362

: 10533

P.O. Number

Prsht Rev.

First Issue

**Previous Run** 

: NIA

This Issue

: 3/23/2006

: NC

: 3/23/2006 : 25998

S.O. No. : N/A

Type

: MACHINED PARTS

Part Number

**Drawing Name** 

: D2573

**Drawing Number** 

: D2573 REV E : N/A

**Project Number Drawing Revision** 

; E

Material

:NA

: 4/10/2006

**Due Date** 

Qtv:

Um:

Each

Written By

Checked & Approved By Comment

: Est: 1

**Additional Product** 

Job Number:



Seq. #:

1.0

Machine Or Operation:

Description:

D6101007

7075-T7351 8.25X7.75X2.5



Comment: Qty.: 1.0000 Each(s)/Unit

Total: 6.0000 Each(s)

7075-T7351 8.25X7.75X2.5

Make from D6101-007 billet for D2573 Ensure that grain is along 7.75" length

Batch No: 1324893

2.0

HAAS1

Comment: HAAS CNC VERTICAL MACHINING #1

Program Batch No. <u>B2682</u> Double check by: <u>J\_L</u>

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets 2-Machine Step No 2 per

Folio FA051 and inspect per attached Dimension Sheets

3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets

4-Deburr and remove all machining marks

5-Tumble to remove sharp edges.

06/03/30

3.0

MILLING CONV

CONVENTIONAL MILLING MACHINE



**Comment: CONVENTIONAL MILLING MACHINE** 

Fr 16/04/01

QC2

INSPECT PARTS AS THEY COME OFF MACHINE

06/03/30

4.0

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

Machine keyway as per dwg D2573 & D2574

Page 1

Form: rprocess

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CI	HANGES				
DATE	STEP PROCEDURE CHANGE By					Approval Chief Eng / Prod Mgr	Approval QC inspector
		- Y					
		. "					

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C	Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	Annroyal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
08.03.31	4	Flunge height is 0.225" (dim 'R')  . 0.015" below tolerance	PH Per			4.03	,	06.04.03			
		·	Ø21 045	see e-mail attached	et per		>				
							¥)				
				**							

NOTE: Date & initial all entries

,	sday, 3/23/2006 3:52:01 PM Johnston	Process Sheet
Customer:	CU-DAR001 Dart Helicopters Services	Drawing Name: SADDLE FITTING, AFT (OUTBOARD/INBOARD)
Judionioi.		
Job Number:	26362	Part Number: D2573
Job Number:		
Seq. #:	Machine Or Operation:	Description :
5.0	QC8	SECOND CHECK
	nt: SECOND CHECK	7nl 06/04/02 C
6.0	HAND FINISHING1	HAND FINISHING RESOURCE #1
Comme	nt: HAND FINISHING RESOURCE #1	
	Acid etch and Alodine as per QSI 005 4.1	a.m 06-04-04 (6)
7.0	POWDER COATING	POWDER COATING
Comme	nt: POWDER COATING	
	Powder Coat White Gloss (Ref. 4.3.5.1) as	
8.0		INSPECT POWDER COAT/CHEMICAL CONVERSION
Campa	nt: INSPECT POWER COAT	
9.0	nt: INSPECT POWDER COAT PACKAGING 1	PACKAGING RESOURCE #1
Comme	nt: PACKAGING RESOURCE #1	
	ldentify and Stock Location: <u>Sナ</u> タン	(6/4/6 (6)
10.0	DC	DOCUMENT CONTROL
Comme	nt: DOCUMENT CONTROL	£
	Inspection Level 21	
Job Completion		h Obedd.07
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## **Dart Aerospace Ltd**

W/O:	i		WORK ORDER CHANGE	ES	i i	<del></del>	
DATE	TE STEP PROCEDURE CHANGE			PROCEDURE CHANGE By Date			
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3		1		*		•	
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	- 12	*					
Part No		PAR #:	Fault Category:	NCR: Yes	No DQA:_	Date:	
						Date:	
NCR:		W W	ORK ORDER NON-CONFORMA	NCE (NC	R)		
D.4.7F		Description of NC	Corrective Action Section		Verification	on Approval	Approval
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng	Sign Date	& Section C		QC Inspector
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NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	26362
Description: Saddle, Aft Outboard	Part Number:	D2573
Inspection Dwg: D2573 Rev. E		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2573 Rev. E and record below:

Recorded Actual Dimensions									
Dim	Min	Max	Go/No Go Gauge	See @ - muil	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0-438	0.438		0.438		
В	1.745	1.755		1.748	1-748	1.746	1,745		
С	3.495	3.505		3 498	3 498	3.457	3.487		
D	1.745	1.755		1.748	1.748	1.746	1.745		· ·
E	7.990	8.010		8.004	8,004	8 006	8-006		
F	0.490	0.510		0.500	0.501	0.498	0.499		
G	0.257	0.262	DT8683	0.258	० ५२५ ४	0.257	0.257		
Н	0.375	0.380	DT8684	0.376	0-376	0.375	0.375		
1	0.490	0.510		0.508	0 - 500	0505	9505		
J	1.174	1.184		10177	1-177	4.178	1.17.8		
K	0.558	0.578		0 568	0.568	6.568	0.569		
L	1.174	1.184		1 .177	1-177	11/78	1.179		
М	1.365	1.375		1.374	1-373	1.369	1.367		
N	2.495	2.505		1.374	2-498	2.496	2.496		
0	4.119	4.129		14 123	4 - 122	4.122	4.121		
Р	0.115	√ 0.135		0.123	0-118	0.122	0.125		
Q	0.115	0.135		0.130	0.130	0.130	0./30		
R	0.240	0.260		0 x 3 3 5 %	0-242	0.250	0260		
S	0.115	0.135		0.124	P.C(.0	0.124	0.172		
T	0.178	0.198	4	0.188	88120	0.199	0.188	·	
U	3.210	3.250		3.230	3 730	3.732	3.230		
V	0.230	0.250		0.234	0.241	0.241	0.240		
W	0.115	0.135		161.0	0.134	0.120	0.119	`	
Х	0.308	0.313		116,8	0.310	0.310	6,310		
Υ	0.760	0.765		0.761	0.310	0.760	0.760		
Z	0.352	0.372		0.362	0.362	0.365	0.365		
AA	0.470	0.530		0.500	0.500	0 500	0.500		
AB	0.615	0.635		0 -625	0-624	0632	0.635		
AC	0.053	0.073		0.063	0.063	0.063	o.663		
AD	0.240	0.260		0.343	0-241	0.249	6.256		
ΑE	1.500	1.520		1.512	1.511	1.53	1.515		
AF	0.115	0.135		0-130	0.130	6-/30	0-130		
AG	0.240	0.280		0.260	0-360	6.260	0.260		
AH	0.240	0.260		0.240	0.a54	0.254	0.257		
ΑI	2.000	2.020		2.00/	2.001	€.008	2.004		
AJ	0.023	0.043		0.033	o.o33	0.030	0.030	1	
	Acc	ept/Reje	ct						

Measured by: ゴ.G-	Audited by	-Jan L	
Date: 06/03/30	Date:	06/04/02	

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.26	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	,
D	05.05.05	Added dimension AI	KJ/RF	1
Е	05.12.05	Added dimension AJ	KJ/JLM 💉	Gill

DART AEROSPACE LTD	Work Order:	26362
Description: Saddle, Aft Outboard	Part Number:	D2573
Inspection Dwg: D2573 Rev. E		Page 1 of 1

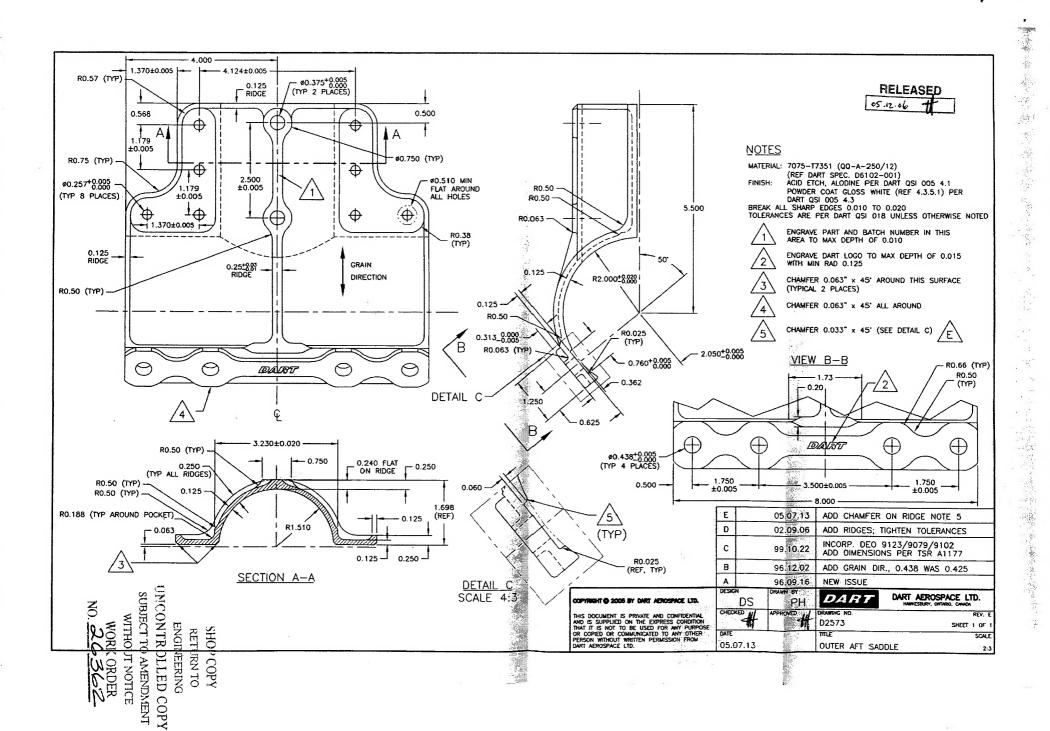
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				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1`	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0.430	6.438				
В	1.745	1.755		1.745	1.745				
С	3.495	3.505		3.497	B:497				
D	1.745	1.755		1.745	1.745				
Ε	7.990	8.010		8.004	8.006				
F	0.490	0.510		6.500	0.494				
G	0.257	0.262	DT8683	6.257	0.257		·		
Н	0.375	0.380	DT8684	0.375	0.375				
ŀ	0.490	0.510		0503	0.566			,	
J	1.174	1.184		1.178	1.178				
K	0.558	0.578		0.566	1.178				
L	1.174	1.184		1.178	1.178				
М	1.365	1.375		1.370	1.178				
N	2.495	2.505		2.496	2.496				
0	4.119	4.129		4.172	4.127		···		
Р	0.115	0.135		0.125	0.124				
Q	0.115	0.135		0-130	0./30				
R	0.240	0.260		0.259	6.259				
S	0.115	0.135		D. 125	0.126		.,		
Т	0.178	0.198		0.188	6.188			-	
U	3.210	3.250		3.240	3.240			1	-
V	0.230	0.250		0.241	0244				
W	0.115	0.135		0.118	6.120				
X	0.308	0.313		0.3/0	0.3/0				
Υ	0.760	0.765		0.760	0.760				
Z	0.352	0.372		0.365	0.363				
AA	0.470	0.530		0500	0.500				
AB	0.615	0.635		0.635	0.635				
AC	0.053	0.073		0063	0.063				
AD	0.240	0.260		6.253	8.255				
AE	1.500	1.520		1.514	1.5-11				
AF	0.115	0.135		0./30	0-130				
AG	0.240	0.280		0.260	0.260				
AH	0.240	0.260		0.258	0.260				. =
ΑI	2.000	2.020		2.003	2.001			ļ	
AJ	0.023	0.043		6.030	0.038				
	Acc	ept/Reje	ct	l .		1			

Measured by:	CP	Audited by	Trix
Date:	06/04/01	Date:	01/04/02

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.26	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	-1
E	05.12.05	Added dimension AJ	KJ/JLM o	

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## **Peter Hum**

> Phone...613-632-3336
> Fax......613-632-4443

David Shepherd [davids@dartaero.com] From: Friday, March 31, 2006 1:17 PM Sent: Peter Hum To: Re: D2573 SADDLE BATCH #26362 Subject: This is an acceptable deviation. David ---- Original Message -----From: "Peter Hum" <phum@dartaero.com> To: "David Shepherd (E-mail)" <davids@dartaero.com> Sent: Friday, March 31, 2006 6:30 AM Subject: D2573 SADDLE BATCH #26362 > Hi David, > Production is making a new batch of D2573 saddles. In blending radius > together, the thickness on the lower area of the flange is 0.225" on both > flanges. The thickness is this dimension locally in this region only as > shown in the picture. The part is 0.015" below the lower tolerance limit. > Is this an acceptable deviation? > This occurs only on the 1st article, the rest of the batch is at the nominal > dimension > Peter Hum > Mechanical Designer > DART Aerospace Ltd. > Email...phum@dartaero.com

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